

INTERNATIONAL SEARCH REPORT

In **International Application No**
PCT/GB 03/04047

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 **A23L1/105 A23L1/03 A21D8/04 A23L1/217 B65D77/30**
B65D81/34

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 **A23L A21D B65D**

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data, FSTA, BIOSIS

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	DATABASE WPI Section Ch, Week 199815 Derwent Publications Ltd., London, GB; Class D11, AN 1998-162469 XP002268083 & JP 10 028516 A (KAO CORP) 3 February 1998 (1998-02-03)	1, 2, 5, 8
X	abstract	11
Y	DATABASE WPI Section Ch, Week 199712 Derwent Publications Ltd., London, GB; Class D13, AN 1997-126328 XP002268084 & JP 09 009862 A (AJINOMOTO KK) 14 January 1997 (1997-01-14)	1, 2, 5, 8
X	abstract	11



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

* Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- "Z" document member of the same patent family

Date of the actual completion of the international search

27 January 2004

Date of mailing of the international search report

10.05.2004

Name and mailing address of the ISA

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 01/78524 A (NOVOZYMES AS ;NOVO NORDISK BIOTECH INC (US)) 25 October 2001 (2001-10-25)	1,2,5,8
X	* page 2, lines 23- 34; page 7, line 27 - page 8, line 7; examples 1-3; claims 1-3, 5, 6, 16-21, 23, 25, 26, 39 *	11
A	"Brief Communications, ACRYLAMIDE IS FORMED IN THE MAILLARD REACTION" NATURE, MACMILLAN JOURNALS LTD. LONDON, GB, vol. 419, 3 October 2002 (2002-10-03), pages 448-449, XP002235161 ISSN: 0028-0836 * page 448, column 2, paragraph 2 - column 3, paragraph 1; page 448, column 3, paragraphs 5-6 *	1,2,5,8, 11
A	TAREKE E ET AL: "analysis of acrylamide, a carcinogen formed in heated foodstuffs" JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY, AMERICAN CHEMICAL SOCIETY. WASHINGTON, US, vol. 50, 17 July 2002 (2002-07-17), pages 4998-5006, XP002237517 ISSN: 0021-8561 cited in the application * page 5002, column 1, last paragraph - page 5004, column 2, last paragraph *	1,2,5,8, 11
A	DATABASE WPI Section Ch, Week 197740 Derwent Publications Ltd., London, GB; Class A14, AN 1977-71839Y XP002268085 & JP 52 102489 A (TAKI CHEMICAL KK) 27 August 1977 (1977-08-27) abstract	1,2,5,8, 11

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Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1,2,5,8,11 (partially)

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

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FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1, 2, 5, 8, 11 (partially)

Use of a lactic acid producing microorganism for the treatment of a food material to reduce acrylamide production in subsequent cooking thereof.

Process for the preparation of ready to cook french fried potatoes which process comprises chopping potatoes, fermenting the chopped potatoes with a lactic acid producing microorganism, frying the fermented chopped potatoes, and optionally loading said fried fermented chopped potatoes into a container.

Process for the production of a food product comprising fermenting a granulated or crushed carbohydrate-containing plant material with a lactic acid producing microorganism, optionally formulating the treated material into a shaped product, and cooking to produce said food product.

Food products produced by said processes or being the result of the aforementioned use.

2. claims: 3, 4, 6, 9, 10, 11 (partially)

Use of a physiologically acceptable acid for the treatment of a food material to reduce acrylamide production in subsequent cooking thereof.

Process for the preparation of ready to cook french fried potatoes which process comprises chopping potatoes, treating the chopped potatoes with a physiologically acceptable acid, frying the acid treated chopped potatoes, and optionally loading said fried potatoes into a container.

Process for the production of a food product comprising treating a granulated or crushed carbohydrate-containing plant material with a physiologically tolerable aqueous acid, optionally formulating the treated material into a shaped product, and cooking to produce said food product. Food products produced by said processes or being the result of the aforementioned use.

3. claim: 7

Container containing oven-ready french fried potatoes produced by frying chopped potatoes pre-treated with a lactic acid producing microorganism and / or a physiologically acceptable acid.

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Information on patent family members

International Application No

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
JP 10028516	A	03-02-1998	NONE	
JP 9009862	A	14-01-1997	NONE	
WO 0178524	A	25-10-2001	AU 5539201 A EP 1276389 A2 WO 0178524 A2 US 2002004085 A1	30-10-2001 22-01-2003 25-10-2001 10-01-2002
JP 52102489	A	27-08-1977	JP 1092993 C JP 55050477 B	16-04-1982 18-12-1980

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